

In re Patent Application of:
YUN-FOO WU
Serial No. New
Filed: July 12, 2006

In The Claims:

1. (New) A toothbrush comprises a toothbrush head 1, a toothbrush bar 2, and a toothpaste container 3 which is connected with the toothbrush bar 2, wherein the toothbrush bar 2 has a pipe channel 21, and the toothbrush container 3 is communicated with the toothbrush head 1 through the pipe channel 21 via a first valve, and wherein the toothbrush bar 2 is hinged with the toothbrush container 3 by a spherical hinged joint 4 formed by the end of the toothbrush bar 2, and the spherical hinged joint 4 controls the opening or closing of the first valve.

2. (New) A toothbrush according to claim 1, wherein inside said toothbrush head 1 is further provided with a vane valve 11 for controlling the opening or closing of the pipe channel 21.

3. (New) A toothbrush according to claim 1, wherein said toothbrush container 3 is a pressurized container.

4. (New) A toothbrush according to claim 1, wherein said toothbrush container 3 is a gas-filled container with a gas nipple 33 at the bottom of the container, and wherein a toothpaste bag 32, which is a compressible soft bag, is located inside the container.

5. (New) A toothbrush according to claim 1, wherein said spherical hinged joint 4 has at least a protruding lip 41

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located at its rear end, and the protruding lip 41 controls the opening or closing of the first valve when the toothbrush bar 2 is rotated with respect to the toothbrush container 3.

6. (New) A toothbrush according to claim 5, wherein said first valve is a ball valve 31 in which the ball 311 is disposed at the exit of the toothbrush container 3, and the protruding lip 41 drives the ball 311 to move when the toothbrush bar 2 is rotated.

7. (New) A toothbrush according to claim 1, wherein said spherical hinged joint 4 is equipped with a leakproof ring 42.

8. (New) A toothbrush according to claim 1, wherein a positioning spring 43 is provided to enable a reset of the toothbrush bar by a relative rotation between the toothbrush bar 2 and the toothbrush container 3.

9. (New) A toothbrush according to claim 1, wherein an adjusting button 44 is provided for adjusting the relative slanting angle between the toothbrush bar 2 and the toothbrush container 3.

10. (New) A toothbrush according to claim 2, wherein said toothbrush container 3 is a pressurized container.

11. (New) A toothbrush according to claim 2, wherein said toothbrush container 3 is a gas-filled container with a

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gas nipple 33 at the bottom of the container, and wherein a toothpaste bag 32, which is a compressible soft bag, is located inside the container.

12. (New) A toothbrush according to claim 2, wherein said spherical hinged joint 4 has at least a protruding lip 41 located at its rear end, and the protruding lip 41 controls the opening or closing of the first valve when the toothbrush bar 2 is rotated with respect to the toothbrush container 3.

13. (New) A toothbrush according to claim 2, wherein said first valve is a ball valve 31 in which the ball 311 is disposed at the exit of the toothbrush container 3, and the protruding lip 41 drives the ball 311 to move when the toothbrush bar 2 is rotated.

14. (New) A toothbrush according to claim 2, wherein said spherical hinged joint 4 is equipped with a leakproof ring 42.

15. (New) A toothbrush according to claim 2, wherein a positioning spring 43 is provided to enable a reset of the toothbrush bar by a relative rotation between the toothbrush bar 2 and the toothbrush container 3.

16. (New) A toothbrush according to claim 2, wherein an adjusting button 44 is provided for adjusting the relative slanting angle between the toothbrush bar 2 and the toothbrush container 3.